



Maternal Immunization

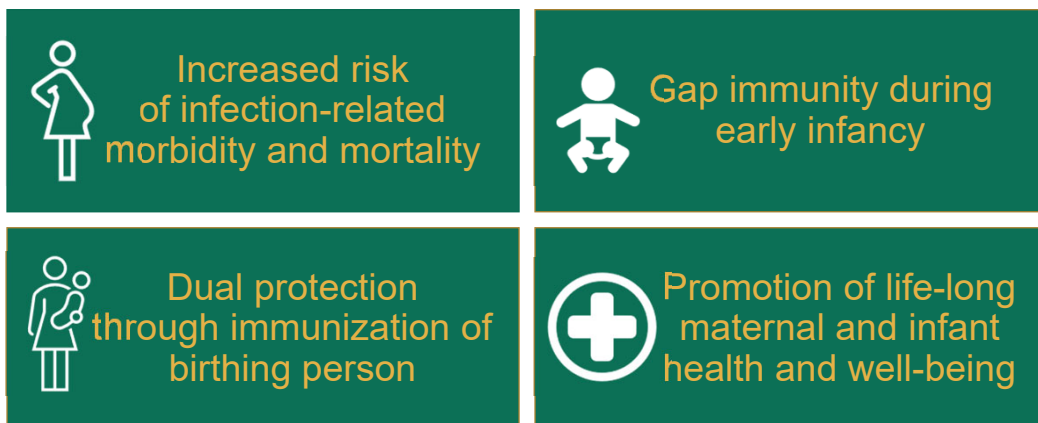
Naima T. Joseph, MD, MPH, FACOG | May 11, 2023
National Adult and Influenza Immunization Summit

DISCLOSURES

External Industry Relationships	Company Name
Equity, stock, or options in biomedical industry companies or publishers	None
Board or Directors or Officer	SMFM Board of Directors, Associate Member SMFM COVID -19 Task Force
Royalties from external industry	UpToDate
Industry Funds	None
Other	None



RATIONALE FOR MATERNAL IMMUNIZATION



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VACCINES CURRENTLY RECOMMENDED DURING PREGNANCY

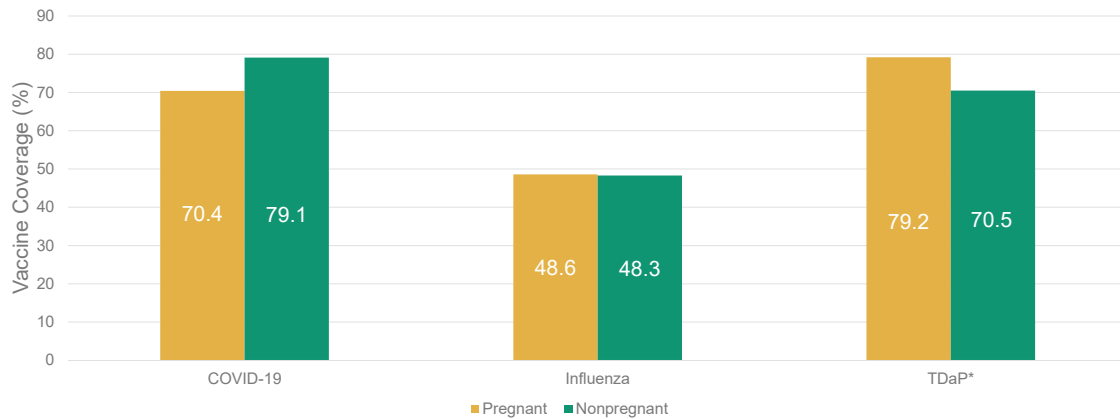
Recommended	Risk-Benefit	Not Recommended	Contraindicated	No Recommendation
COVID-19 In. Influenza TDaP Hepatitis B	Hepatitis A Meningococcal B Polio	Human Papillomavirus	Live attenuated influenza Measles Mumps Rubella Varicella	Pneum. Conjugate Pneum. Polysaccharide Zoster
	Rabies Monkeypox/ smallpox – JYNNEOS* Anthrax Yellow Fever	Typhoid [#]	BCG Monkeypox/ smallpox - ACAM2000	Japanese Encephalitis

*moving towards recommended; [†]only for post exposure prophylaxis; [#]Use vi polysaccharide instead



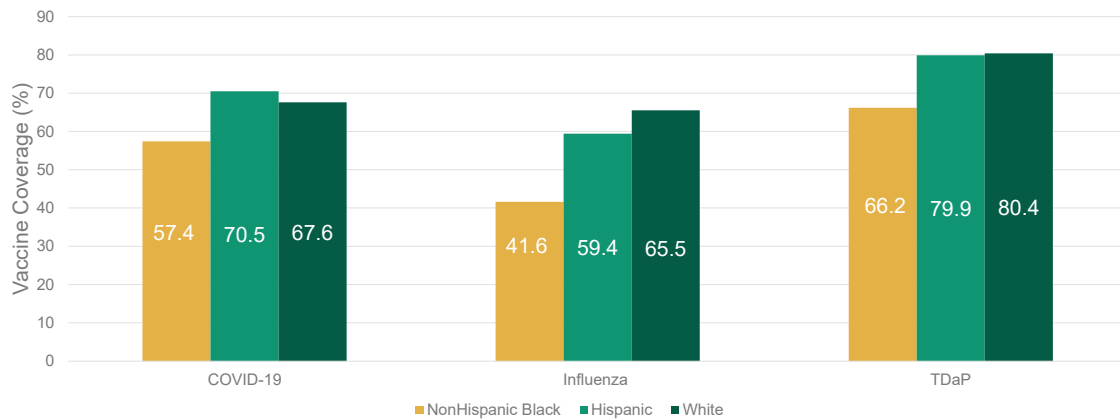
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IMMUNIZATION BELOW TARGETS



Data from <https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/index.html>
Tdap Coverage from 2019 BRFSS Survey Data, CDC

DISPARITIES IN IMMUNIZATION COVERAGE



Data from <https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/index.html>
Tdap and Influenza Coverage from 2020

WHAT THE PANDEMIC HAS TAUGHT US ABOUT MATERNAL IMMUNIZATION

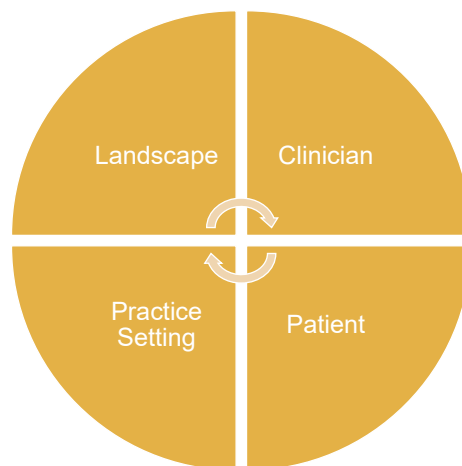
- **Missed opportunities**
 - Need to capitalize on prenatal care to enhance long-term maternal-infant wellness
- **Science communication**
 - Need to improve confidence regarding maternal immunization among patients and providers
- **Equitable vaccination strategies**
 - Need to harness innovative, community-based platforms for vaccine counseling and delivery



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BARRIERS TO VACCINE PROVISION IN PRENATAL CARE SETTINGS

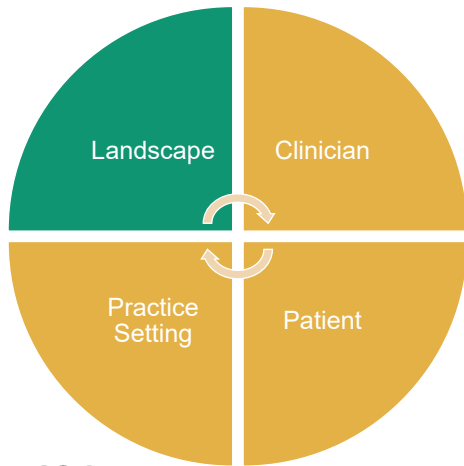
Patient and Provider Perspectives



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BARRIERS TO VACCINE PROVISION IN PRENATAL CARE SETTINGS

Patient and Provider Perspectives

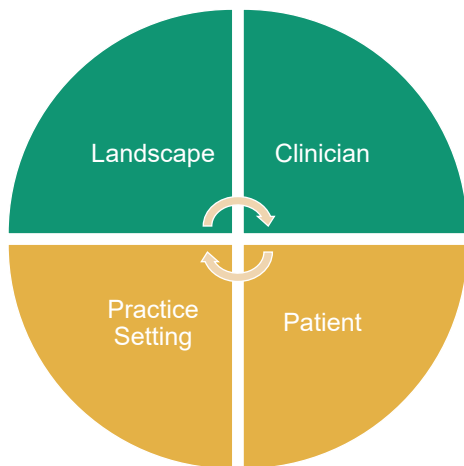


- Rapidly evolving science and messaging regarding vaccination
- Varying sources of medical information
- Community representation
- (Initial) Lack of pregnancy-specific data

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BARRIERS TO VACCINE PROVISION IN PRENATAL CARE SETTINGS

Patient and Provider Perspectives

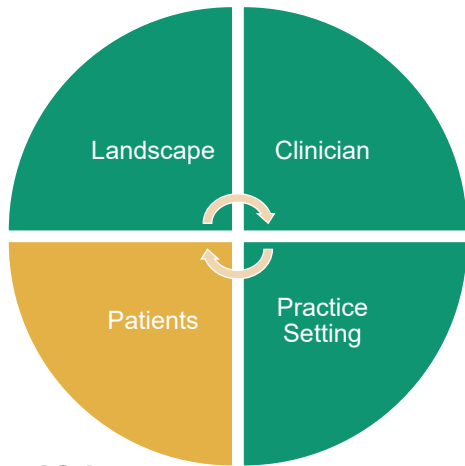


- Lack of skills navigating vaccine hesitancy
- Lack of confidence surrounding vaccine recommendations
- Lack of time to provide counseling
- Reimbursement

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BARRIERS TO VACCINE PROVISION IN PRENATAL CARE SETTINGS

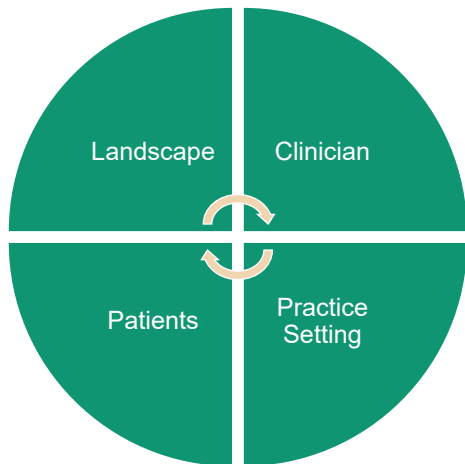
Patient and Provider Perspectives



- Vaccine availability differs within practice sites
- Siloed and uncoordinated data systems
- Different messaging within/across practices

BARRIERS TO VACCINE PROVISION IN PRENATAL CARE SETTINGS

Patient and Provider Perspectives



- Safety concerns
- Perceptions of risk
- Vaccine beliefs
- More pressing health concerns

THE SHARE APPROACH



Agency for Healthcare Research and Quality
<https://www.ahrq.gov/health-literacy/professional-training/shared-decision/tools/factsheet.html>

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COUNSELING PREGNANT PATIENTS REGARDING VACCINATION

1. **Risk of exposure** to the disease
2. Whether an infection poses special **risk to the mother**
3. Whether an infection poses a special **risk to the fetus**
4. Availability of a **safe and effective vaccine**



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CDC Advisory Committee on Immunization Practices (ACIP) MMWR 2011

SHARING PATIENT STORIES

"I navigate in the world now with much more confidence knowing that my baby and I are protected. If I had to do it all over again, I would've gotten vaccinated earlier."

—Katrice Anadumaka



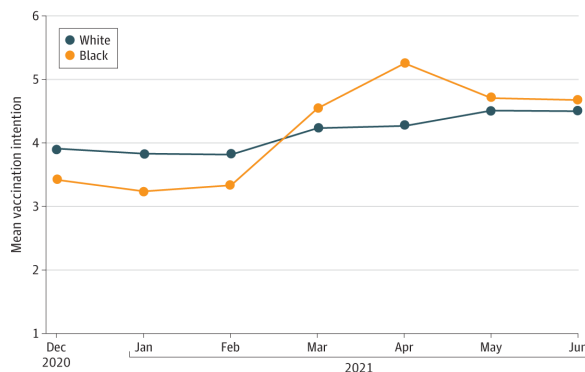
**LABOR
of
LOVE**



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IT IS POSSIBLE TO CHANGE ATTITUDES

- Related to beliefs
 - Safety
 - Effectiveness
- Related to relationships
 - Provider recommendations



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Padamsee TJ, Bond RM, Dixon GN et al. JAMA Network Open 2022
<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2788286>

ACOG RESOURCES



ACOG PRACTICE ADVISORY

Comprehensive [clinical guidance](#)
regarding COVID-19 Vaccination

- FDA & ACIP recommendations
- Efficacy & safety information
- ACOG recommendations

COVID-19 Vaccination Considerations for
Obstetric–Gynecologic Care

Practice Advisory | December 2020

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Last updated November 16, 2022

This Practice Advisory was developed by the American College of Obstetricians and Gynecologists' Immunization, Infectious Disease, and Public Health Preparedness Expert Work Group in collaboration with Laura E. Riley, MD; Richard Beigi, MD; Denise J. Jamison, MD, MPH; Brenna L. Hughes, MD, MCh; Cleeta Swamy, MD; Linda O'Neal Eckert, MD; Mark Turrentine, MD; and Sarah Carroll, MPH.

Summary of Updates

This Practice Advisory provides an overview of the currently available COVID-19 vaccines and guidance for their use in pregnant, recently pregnant, lactating, and nonpregnant individuals aged 12 years and older. For guidance and recommendations for the use of these vaccines in individuals aged 11 years or younger, please visit the website of the American Academy of Pediatrics. For additional information regarding severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection and treatment, see ACOG's [Frequently Asked Questions](#).



CONVERSATION GUIDE FOR CLINICIANS

Highlights the main conversation points for clinicians from ACOG's Practice Advisory to help discuss COVID-19 vaccines with pregnant individuals.

- Key recommendations
- Safety messages
- Efficacy messages



COVID-19 Vaccines and Pregnancy: Key Recommendations and Messaging for Clinicians

KEY RECOMMENDATIONS

- The American College of Obstetricians and Gynecologists (ACOG) recommends that pregnant individuals be vaccinated against COVID-19. Given the potential for severe illness and death during pregnancy, completion of the initial COVID-19 vaccination series is a priority for this population.
- Vaccination may occur in any trimester, and emphasis should be on vaccine receipt as soon as possible to maximize maternal and fetal health.
- For patients who do not receive the vaccine, the discussion should be documented in the patient's medical record. During subsequent office visits, obstetrician-gynecologists should address ongoing questions and concerns and offer vaccination again.
- COVID-19 vaccines may be administered simultaneously with other vaccines, including within 14 days of receipt of another vaccine. This includes vaccines routinely administered during pregnancy, such as the influenza and Tdap vaccines.
- Individuals aged 18–64 years at high risk of severe COVID-19 are eligible for a COVID booster. Therefore, ACOG recommends that pregnant people, including pregnant health care workers, receive a booster dose of the Pfizer-BioNTech COVID-19 vaccine at least 6 months after the completion of their initial Pfizer-BioNTech COVID-19 vaccine series.
- Pregnant patients who get vaccinated should be encouraged to sign up for the v-safe safety monitoring program of the Centers for Disease Control and Prevention (CDC).

KEY MESSAGES

The following messages are intended to help guide conversations with pregnant patients:

Risk Associated With COVID-19 Infection During Pregnancy

- COVID-19 infection during pregnancy is associated with increased risk of maternal severe illness, admission to an intensive care unit, mechanical ventilation, and death.
- There is a known increased risk of complications from COVID-19 in pregnant patients with underlying health conditions (eg, diabetes, obesity, increasing age, and cardiovascular disease).
- There is an increased risk of preterm delivery, and there may be an increased risk of stillbirth.
- There is increased risk of infection and death for certain racial and ethnic populations.

Safety of COVID-19 Vaccines

- None of the COVID-19 vaccines available for use under emergency use authorization or U.S. Food and Drug Administration (FDA) license causes infertility or spontaneous abortion.
- There is no evidence of adverse maternal or fetal effects from vaccinating pregnant individuals with the COVID-19 vaccine, and a [systematic body of data demonstrates the safety of such use.](#)

COVID-19 Vaccines and Pregnancy: Conversation Guide for Clinicians | ACOG

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INFORM TO EMPOWER: ACOG COVID-19 VACCINE CONFIDENCE TRAINING

Introducing the ACOG Immunization Team's newest training initiative! *Inform to Empower: Building COVID-19 Vaccine Confidence One Conversation at a Time* is a series of [six training videos](#) consisting of tools and resources to assist clinicians in promoting vaccine confidence among pregnant people.

Each module includes a toolkit with resources for patients, including printable handouts.

Module 1: [Introduction to ACOG's COVID-19 Vaccine Confidence Training](#)

Module 2: [COVID-19 Landscape: Data and Recommendations](#)

Module 3: [Confident Conversations: Exploring Evidence-Based Strategies](#)

Module 4: [Confident Conversations: Leading Effective Vaccine Conversations](#)

Module 5: [Confident Conversations: Addressing COVID-19 Vaccine Misinformation](#)

Module 6: [Confident Conversations: Leading by Example](#)



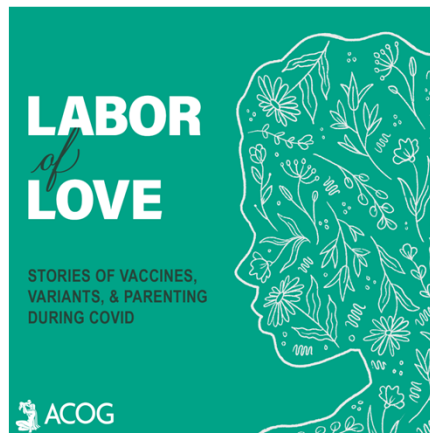
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LABOR OF LOVE: STORIES OF VACCINES, VARIANTS, AND PARENTING DURING COVID

Check out ACOG's new podcast, [Labor of Love: Stories of Vaccines, Variants, and Parenting during COVID](#). This season of Labor of Love is a five-part series where each week, Veronica Pimentel, MD, MS, FACOG, speaks with women dealing with everything that accompanies motherhood and pregnancy in the time of COVID-19. Dr. Pimentel also speaks with medical experts in the fields of maternal health, fertility, and mental well-being who provide evidence-based information and recommendations on how best to navigate pregnancy and motherhood during COVID-19.

[Check out the trailer](#) for Labor of Love and find more information about the podcast.

All episodes are now available on your favorite podcast streaming outlet! [Listen](#) and subscribe today!



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COVID-19 VACCINES: TOOLS FOR YOUR PRACTICE AND YOUR PATIENTS

[COVID-19 Vaccines: Tools for Your Practice and Your Patients](#) is a new tool kit from ACOG compiling all of our COVID-19 resources in a 1-stop shop.

It also includes several new resources including a template letter to patients about COVID-19 vaccines, and a “how to guide” for ACOG members outlining the process for becoming a COVID-19 vaccinator.

COVID-19 Vaccines: Tools for Your Practice and Your Patients

Show

COVID-19

ACOG Tool Kit on Routine Visits and Screenings During the Pandemic

COVID-19 Vaccines: Tools for Your Practice and Your Patients

A Note to Send to Your Patients

“More than 80% of people say that they would turn to their doctor or to another health care professional who cares for them to actually make a decision about whether or not they should get a vaccine.”

— Vice Admiral Vivek H. Murthy, MD, MPH, U.S. Surgeon General, 2021 ACOG Annual Clinical and Scientific Meeting

Obstetrician-gynecologists have the unique responsibility of counseling their patients, including people who are pregnant and lactating, through their COVID-19 vaccination decisions. This guide can help you:

- Communicate with your patients about the COVID-19 vaccination in ways that make them more likely to get vaccinated
- Learn about becoming a COVID-19 immunization administrator or vaccinator, which follows a different process than other immunizations
- Start thinking about COVID-19 vaccination as a potentially long-term element of clinical practice

Tools for Your Patients



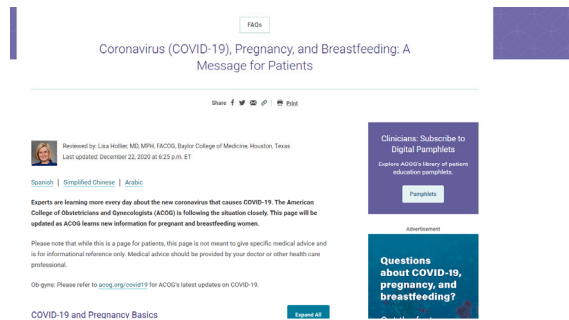
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PATIENT EDUCATION RESOURCES

COVID-19 resources on ACOG's Patient Education Portal include:

➤ [Expert columns](#)

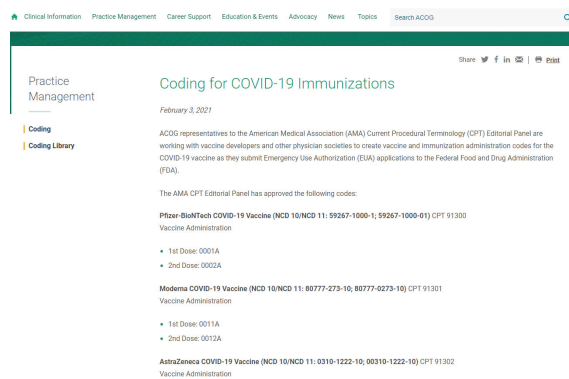
➤ [Frequently Asked Questions](#)



CODING FOR COVID-19 IMMUNIZATIONS

[Coding for COVID-19 Immunizations](#)

Practice management resource outlining coding specifics for COVID-19 vaccines



ACOG RESOURCES

- Patient and provider testimonials:
<https://www.acog.org/programs/immunization-for-women/activities-initiatives/building-covid-19-vaccine-confidence/testimonials>
- COVID-19 vaccine confidence training has a module on misinformation (module 5): <https://www.acog.org/covid-19/vaccine-confidence-champion-network/training>
- Patient-facing videos and resources:
<https://www.acog.org/programs/immunization-for-women/physician-tools/patient-education-videos-routine-vaccinations-during-pregnancy>

